

# DNSSEC.CZ

## DNSSEC Workshop

Ondrej Filip • [ondrej.filip@nic.cz](mailto:ondrej.filip@nic.cz) • 25 Jun 2014 • London



# DNSSEC.CZ - history

- April 4, 2008 - ENUM (0.2.4.e164.arpa)
- September 2, 2008 – .CZ signed
- September 30, 2008 - .CZ open for end-user public key registration (KEYSET records)
- July 15, 2010 – root zone signed
- NSEC->NSEC3
  - 0.2.4.e164.arpa – Jun 2010
  - CZ – August 2010
- NSEC3 w/o OPT-OUT (high % of signed)



# DNSSEC.CZ – Key points

- Incentives for registrars
- Direct communication with major stakeholders – registrars, ISPs, and Government, major websites
- Open source supporting tools - DANE
- Long term DNSSEC related PR/Campaigns
- Technical conferences



# Incentives for registrars



- **Technical** – DNSKEY object shared by multiple domains – bulk operations
- **Marketing** – Registrar certification – hard to get 5 stars without DNSSEC support
- **Financial** – Co-marketing – 50% expenses covered if campaign related to .cz – DNSSEC penetration means higher caps

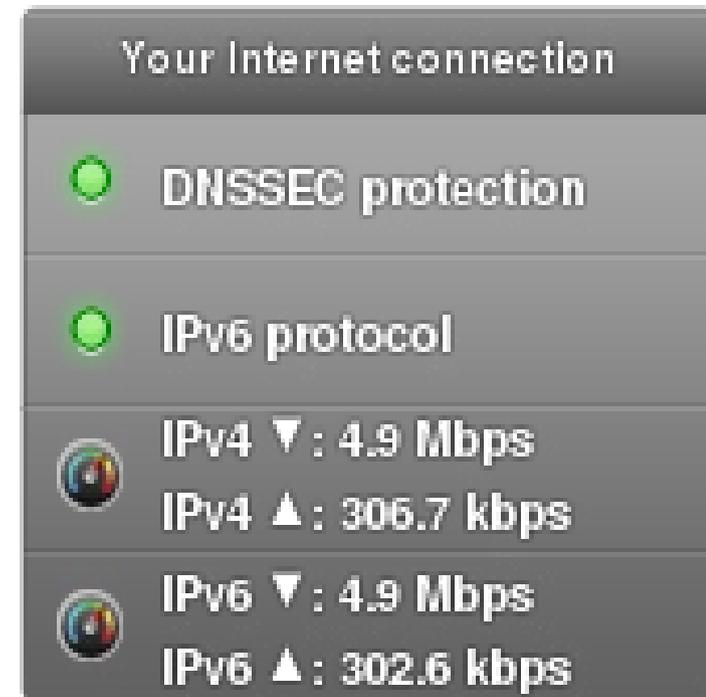
Registrar	Website	Technologies	Certification
KRAXNET s.r.o.	<a href="http://www.xnet.cz">http://www.xnet.cz</a>		★★★★★
IGNUM, s.r.o.	<a href="http://www.domena.cz">http://www.domena.cz</a>		★★★★★
ZONER software, a. s.	<a href="http://www.reqZone.cz">http://www.reqZone.cz</a>		★★★★★
Web4U s.r.o.	<a href="http://www.spravadomen.cz">http://www.spravadomen.cz</a>		★★★★★
ACTIVE 24, s.r.o.	<a href="http://www.active24.cz">http://www.active24.cz</a>		★★★★★



# Tools



- Browser DNSSEC TLSA validator – browser addon - Firefox, Chrome, IE
- Bogus domain checks – ISPs
- DNSSEC HTML widget
- Turris project – Secure CPE
- Check <http://labs.nic.cz>
- Open source



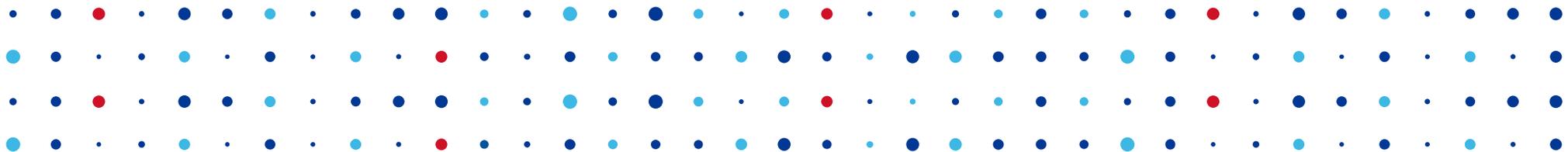


# Current situation



- 38% of all Czech domains (433k of 1.1M) – growing
- All major registrars (with 90% of market share) support DNSSEC – many sign by default
- Many major ISPs validate - 2 of 3 cell phone operators; majority of B2B; major xDSL provider
- Many important sites signed – news, banks, ...
- DNSSEC in gov. strategy – Digital Czech 2.0





# Thank You!

Ondrej Filip • [ondrej.filip@nic.cz](mailto:ondrej.filip@nic.cz) • <http://www.nic.cz>

